PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant :

Lorin R. DeBonte et al.

Art Unit: 1649

Serial No.:

08/572,027

Examiner: G. Benzion

Filed

12/14/95

Title

PLANTS HAVING MUTANT SEQUENCES THAT CONFER ALTERED

FATTY ACID PROFILES

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AFT MIVED SEF 2 1 1998

Assistant Commissioner for Patents

Washington, DC 20231

GROUP 1800

RESPONSE AFTER FINAL PURSUANT TO 37 C.F.R. §1.116

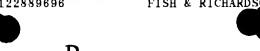
In response to the Examiner's action mailed July 7, 1998, please amend the application as follows:

In the Claims

- An isolated nucleic acid (Three Times Amended) l. fragment comprising a sequence of at least about 20 nucleotides from a Brassicaceae or Helianthus delta-12 fatty acid desaturase gene having at least one mutation in a region of said desaturase gene encoding a His-Xaa-Xaa-Xaa-His amino acid motif, wherein said at least one mutation [is effective for altering the fatty acid composition in Brassicaceae or Helianthus seeds] renders the product of said desaturase gene non-functional and wherein said sequence includes said at least one mutation.
- (Twice Amended) The nucleic acid fragment of claim \$, wherein the wild-type sequence of said motif comprises the [wild-type amino acid] sequence His-Glu-Cys-Gly-His.

(Twice Amended) The nucleic acid fragment of claim &, wherein said at least one mutation in said motif

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9/23/98

Date September 25, 1998

To Examiner Gary Benzion

Group 1649

Assistant Commissioner for Patents

Washington, DC 20231

Facsimile number

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From

Ronald C. Lundquist, Ph.D.

Reg. No. 37,875

Re

Applicant:

Lorin R. DeBonte et al.

Art Unit:

1649

Serial No.:

08/572,027

Filed:

12/14/95

Title:

PLANTS HAVING MUTANT SEQUENCES THAT CONFER

ALTERED FATTY ACID PROFILES

Number of pages

including this page

12

Message:

Attached please find the following:

1. Response After Final Pursuant to 37 C.F.R. §1.116.

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